

multiply each formula's annual usage by its appropriate uncontrolled organic HAP emissions estimation equation or factor and sum the individual results.

(4) To calculate your annual controlled organic HAP emissions, multiply each formula's annual usage by its appropriate organic HAP emissions estimation equation or factor and sum the individual results to obtain total annual controlled organic HAP emissions.

(e) Where a facility is calculating both uncontrolled and controlled organic HAP emissions estimation equations and factors, you must test the same formulae. In addition, you must develop both sets of equations and factors from the same tests.

§ 63.5875 How do I determine the capture efficiency of the enclosure on my wet-out area and the capture efficiency of my oven(s) for continuous lamination/casting operations?

(a) The capture efficiency of a wet-out area enclosure is assumed to be 100 percent if it meets the design and operation requirements for a permanent total enclosure (PTE) specified in EPA Method 204 of appendix M to 40 CFR part 51. If a PTE does not exist, then a temporary total enclosure must be constructed and verified using EPA Method 204, and capture efficiency testing must be determined using EPA Methods 204B through E of appendix M to 40 CFR part 51.

(b) The capture efficiency of an oven is to be considered 100 percent, provided the oven is operated under negative pressure.

§ 63.5880 How do I determine how much neat resin plus is applied to the line and how much neat gel coat plus is applied to the line for continuous lamination/casting operations?

Use the following procedures to determine how much neat resin plus and neat gel coat plus is applied to the line each year.

(a) Track formula usage by end product/thickness combinations.

(b) Use in-house records to show usage. This may be either from automated systems or manual records.

(c) Record daily the usage of each formula/end product combination on each line. This is to be recorded at the end of each run (*i.e.*, when a changeover in formula or product is made) and at the end of each shift.

(d) Sum the amounts from the daily records to calculate annual usage of each formula/end product combination by line.

§ 63.5885 How do I calculate percent reduction to demonstrate compliance for continuous lamination/casting operations?

You may calculate percent reduction using any of the methods in paragraphs (a) through (d) of this section.

(a) *Compliant line option.* If all of your wet-out areas have PTE that meet the requirements of EPA Method 204 of appendix M of 40 CFR part 51, and all of your wet-out area organic HAP emissions and oven organic HAP emissions are vented to an add-on control device, use Equation 1 of this section to demonstrate compliance. In all other situations, use Equation 2 of this section to demonstrate compliance.

$$PR = \frac{(\text{Inlet}) - (\text{Outlet})}{(\text{Inlet})} \times 100 \quad (\text{Eq. 1})$$

Where:

PR=percent reduction;

Inlet=HAP emissions entering the control device, lbs per year;

Outlet=HAP emissions existing the control device to the atmosphere, lbs per year.

$$PR = \frac{(WAE_{ci} + O_{ci}) - (WAE_{co} + O_{co})}{(WAE_{ci} + WAE_u + O_{ci} + O_u)} \times 100 \quad (\text{Eq. 2})$$

Where:

PR=percent reduction;

WAE_{ci} = wet-out area organic HAP emissions, lbs per year, vented to a control device;

WAE_u = wet-out area organic HAP emissions, lbs per year, not vented to a control device;

O_u = oven organic HAP emissions, lbs per year, not vented to a control device;

O_{ci} = oven organic HAP emissions, lbs per year, vented to a control device;

WAE_{co} = wet-out area organic HAP emissions, lbs per year, from the control device outlet;

O_{co} = oven organic HAP emissions, lbs per year, from the control device outlet.

(b) *Averaging option.* Use Equation 3 of this section to calculate percent reduction.

$$PR = \frac{\left(\sum_{i=1}^m WAE_{ci} + \sum_{j=1}^n O_{cj} \right) - \left(\sum_{i=1}^m WAE_{co} + \sum_{j=1}^n O_{co} \right)}{\left(\sum_{i=1}^m WAE_{ci} + \sum_{j=1}^n O_{cj} + \sum_{i=1}^m WAE_u + \sum_{j=1}^n O_{ju} \right)} \times 100 \quad (\text{Eq. 3})$$

Where:

PR=percent reduction;

WAE_{ci} = wet-out area organic HAP emissions from wet-out area i, lbs per year, sent to a control device;

WAE_u = wet-out area organic HAP emissions from wet-out area i, lbs per year, not sent to a control device;

WAE_{co} = wet-out area organic HAP emissions from wet-out area i, lbs per year, at the outlet of a control device;

O_u = organic HAP emissions from oven j, lbs per year, not sent to a control device;

O_{ci} = organic HAP emissions from oven j, lbs per year, sent to a control device;

O_{co} = organic HAP emissions from oven j, lbs per year, at the outlet of the control device;

m=number of wet-out areas;

n=number of ovens.

(c) *Add-on control device option.* Use Equation 1 of this section to calculate percent reduction.

(d) *Combination option.* Use Equations 1 through 3 of this section, as applicable, to calculate percent reduction.

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§ 63.5890 How do I calculate an organic HAP emissions factor to demonstrate compliance for continuous lamination/casting operations?

(a) *Compliant line option.* Use Equation 1 of this section to calculate an organic HAP emissions factor in lbs/ton.

$$E = \frac{WAE_u + WAE_c + O_u + O_c}{(R + G)} \quad (\text{Eq. 1})$$

Where:

E=HAP emissions factor in lbs/ton of resin and gel coat

WAE_u = uncontrolled wet-out area organic HAP emissions, lbs per year

WAE_c = controlled wet-out area organic HAP emissions, lbs per year

O_u = uncontrolled oven organic HAP emissions, lbs per year

O_c = controlled oven organic HAP emissions, lbs per year

R=total usage of neat resin plus, tpy

G=total usage of neat gel coat plus, tpy

(b) *Averaging option.* Use Equation 2 of this section to demonstrate compliance.